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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Confirmation No. 4466

Mitsuaki OSHIMA et al.

Docket No. 2004 0205

Serial No. 10/773,811

Group Art Unit 2614

Filed February 9, 2004

THE COMMISSIONER IS AUTHORIZED TO CHARGE ANY DEFICIENCY IN THE FEES FOR THIS PAPER TO DEPOSIT

COMMUNICATION SYSTEM

ACCOUNT NO. 23-0975

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

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Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Patentees request consideration of the references listed on attached form PTO-1449 and any additional information identified below in paragraph 3. A legible copy of each reference listed on the Form PTO-1449 is enclosed, except a copy is not provided for:

	[X]	each U.S. Patent and U.S. Patent application publication;					
	0	each reference previously cited in the international application PCT/; and/or					
	0	each reference previously cited in prior parent application Serial No.					
la.	[X] This Information Disclosure Statement is submitted:						
	within three months of the filing date (or of entry into the National Stage) of the above-entitled application, or						
	before the mailing of a first Office Action on the merits or the mailing of a first Office Action after the filing of an RCE,						
	and thus no certification and/or fee is required.						

1b.	[] This	Information Disclosure Statement is submitted						
	after the events of above paragraph 1a and prior to the mailing date of a final Office Action or a Notice of Allowance or an action which otherwise closes prosecution in the application, and thus:							
	(1) [] the certification of paragraph 2 below is provided, or							
	(2) [] the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.							
1c.	[] This Information Disclosure Statement is submitted:							
	after the mailing date of a final Office Action or Notice of Allowance or action which otherwise closes prosecution in the application, and prior to payment of the issue fee, and thus:							
	the certification of paragraph 2 below is provided, and							
	the fee	of \$180.00 specified in 37 CFR 1.17(p) is enclosed.						
2.	It is here	It is hereby certified						
	a. []	that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or						
	b. []	that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of the Statement.						
3. [X]		ration of the following list of additional information (including any copending or ed U.S. application, prior uses and/or sales, etc.) is requested.						

In the J.A.C. Bingham reference, pages 9 and 10 are advertising pages and have been

omitted.

- 4. For each non-English language reference listed on the attached form PTO-1449, reference is made to:
 a. [] a full or partial English language translation submitted herewith,
 b. [] a foreign patent office search report (in the English language) submitted herewith,
 c. [] the concise explanation contained in the specification of the present application at page,
 d. [X] the concise explanation set forth in the attached English language abstract,
 e. [] the concise explanation set forth below or on a separate sheet attached to the reference:
- 5. [] A foreign patent office search report citing one or more of the references is enclosed.
- 6. [] Statement Under 37 CFR 1.704(d)

Each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign Patent Office in a counterpart application, and this communication was not received by any individual designated in §1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.

Respectfully submitted,

Mitsuaki OSHIMA et al

feffrey R Filipek
Registration No. 41,471

Attorney for Patentees

JRF/fs Washington, D.C. 20006-1021 Telephone (202) 721-8200 Facsimile (202) 721-8250 June 7, 2005

INFORMATION DISCLOSURE STATEMENT Sheet 1 of 2 ATTY DOCKET NO. SERIAL NO. FORM PTO 1449 (modified) 2004_0205 10/773,811 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE **APPLICANT** Mitsuaki OSHIMA et al. LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary) **GROUP FILING DATE** Date Submitted to PTO:June 7, 2005 2614 February 9, 2004 U.S. PATENT DOCUMENTS *EXAMINER DATE NAME CLASS SUBCLASS FILING DATE IF DOCUMENT **APPROPRIATE** NUMBER INITIAL AA 7-16-74 Sullivan et al. 3,824,548 AB 3,959,726 5-25-76 Hinoshita et al. Stephens et al. AC 4,303,939 12-1-81 AD 4,303,941 12-1-81 Marti et al. Tanaka et al. ΑE 1-5-82 4,309,726 AF 4,535,352 8-85 Haskell AG 4,564,858 1-14-86 Resch AH 4,581,639 4-8-86 Judge Matsutani et al. ΑI 4,769,819 9-6-88 12-27-88 Tsinberg ΑJ 4,794,447 AK 4,800,426 1-24-89 Glenn Phillips et al. AL 4,817,192 3-28-89 AM 5.007,088 4-9-91 Ooi et al. AN 7-91 5,029,003 Jonnalagadda AO 5,134,464 7-28-92 Basile et al. FOREIGN PATENT DOCUMENTS DOCUMENT SUBCLASS TRANSLATION DATE COUNTRY CLASS NUMBER YES NO AP OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.) Masafumi SAITO et al., "Bit Error Rate Characteristics of OFDM in Multipath Environment", 1991 AQ AR Rvutaro OHMOTO et al., "π/4-shift QPSK Subcarrier Transmission", 1991 **EXAMINER** DATE CONSIDERED

Sheet 2 of 2			INFORMA	TION DISCLOSURE STATEMEN	NT								
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